Think GAIA
For Life and the Earth

SANYO



Sanyo CCTV range 2009

Sharper CCTV technology



SANYO Solar Ark













Delivering over 40 years of CCTV

Over 40 years experience in the CCTV industry has enabled SANYO to produce a CCTV product range that is one of the most comprehensive, easy to use and install and reliable in the industry. This coupled with our industry renowned technical back up and service support makes SANYO a popular choice for installers and end users alike.

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VAC-70

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Colour Metal Case Monitors
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Industrial LCD Monitor

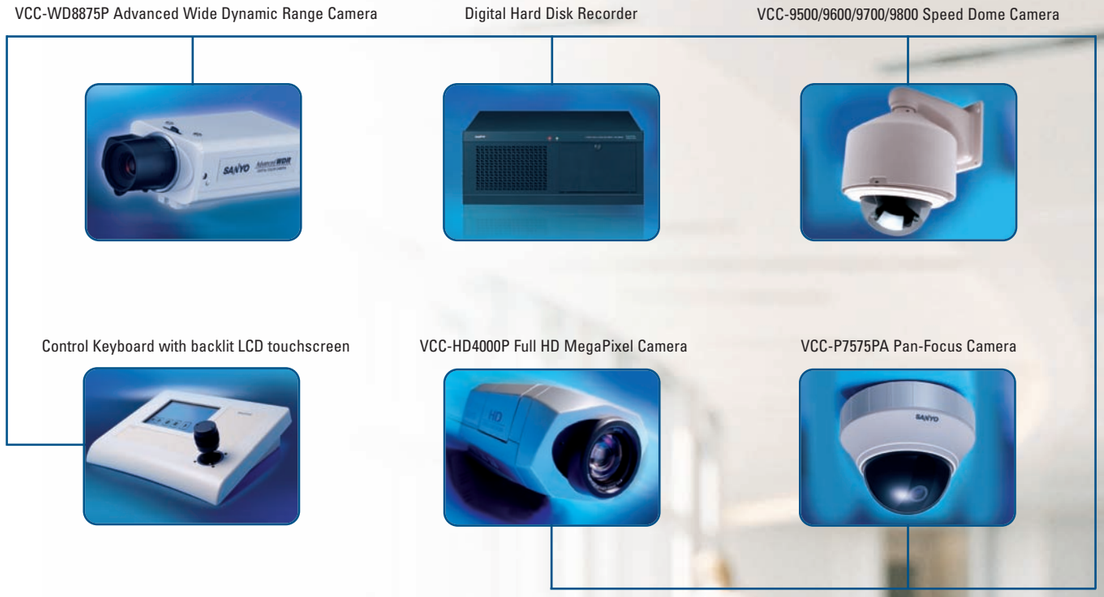
PRODUCT RANGE (34 - 35)

HD Ready TV
Eneloop Batteries
Education Projectors
Xacti Waterproof Camera
Xacti High Definition Camera

Capturing quality images



From image capturing to recording and downloading SANYO can provide the solution



- Network
- Network/Option
- Day/Night Camera
- Colour Camera
- 30 x Zoom Lens
- 36 x Zoom Lens
- Wide - Dynamic
- Advanced Wide - Dynamic
- Vandal Resistant
- VAC 70 Compatible
- High Definition

A product for every application

In 2009 we are pleased to be able to further enhance our already extensive product range with more technological enhancements which enable you to utilise next generation technology today.
Our Full High Definition camera the VCC-HD4000P offers a level of picture quality not previously seen in CCTV cameras.
Our new Advanced Wide Dynamic Range cameras use a new advanced image processing engine to achieve images comparable with those achieved with the human eye.

These ground-breaking technologies allied to our comprehensive range of DVR's, Pan Focus camera range and fully functional dome cameras mean we are perfectly placed to ensure a successful year for all of our customers

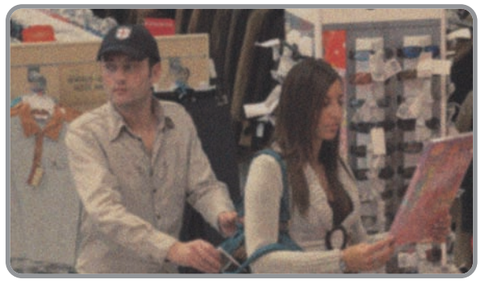


High Definition

Full HD (1920 x 1080/25p) H.264 Network camera

Our high definition camera uses groundbreaking technology to offer improved picture quality, giving vast improvement in image sharpness. The dual streaming of H.264 and JPEG enable high definition recording, (internally or externally) and real time H.264 live monitoring at the same time. Images can be recorded onto SD/SDHC memory card and also to a external hard drive via USB.

These features allied with a 4 million mega pixel progressive scan sensor and 10 x built in optical zoom lens mean crystal clear images are available for a range of applications and situations where it was not previously possible. Ideal for banking, retail and all remote surveillance applications, the VCC-HD4000P brings broadcast quality imaging to the CCTV industry.



A standard network camera image



A SANYO (HD) network camera image

SANYO

The HD Camera features include:

- Full HD (1920 x 1080/25p) H.264 Network camera
- 4 million pixel progressive scan CMOS image sensor for ultimate surveillance video quality
- Latest H.264 compression technology enable to stream very high resolution real time moving image to the network
- Simultaneous stream of H.264 and JPEG data and also high resolution HDMI video out
- Internal recording to SD/SDHC card or HDD via USB for alarm / network failure to safe guard data integrity
- HDMI output(1080i) for Full High Definition video monitoring
- Optical 10x zoom mega pixel lens for optimum image quality
- 16x digital zoom for further image enlargement without losing vital detail



VCC-HD4000P HD DAY/NIGHT

Full-High Definition network zoom camera

HD NETWORK CAMERA

NETWORK

- H.264 / JPEG dual streaming and Video output
- Video out : COAX or HDMI output
- H.264 Image Data Size (16:9) : 1920 x 1080, 1280 x 720, 960 x 540, 640 x 360, 320 x 180 H.264 Image Data Size (4:3) : 1080 x 864, 720 x 576, 360 x 288
- JPEG image data size (16:9): 1920 x 1080, 1280 x 720, 1024 x 576, 640 x 360 JPEG image data size (4:3): 2288 x 1712, 1600 x 1200, 1280 x 960, 1024 x 768, 800 x 600, 640 x 480, 320 x 240
- Bandwidth Max 12 Mbps
- Independent streaming
 H.264 Frame rate max 25ips (1920 x 1080)
 JPEG Frame rate max 1ips (2288 x 1712)
- Simultaneous streaming
 H.264 Frame rate max 25ips (640 x 480)
 JPEG Frame rate max 25ips (640 x 480)
- Support SANYO Dynamic DNS for fixed host name
- Schedule transmission of image (FTP) / e-mail (SMTP)
- Alarm transmission of image (FTP) / e-mail (SMTP)
- Internal Alarm Buffer
- Max. 16 user access
- Power over Ethernet
- Internet Explorer access
- VA-SW3050LITE viewing software

CAMERA

- 1/2.5" CMOS 4Mega pixel
- 10x Optical Zoom & 16x digital Zoom
- IR sensitive with mechanical IR Cut filter release
- Minimum illumination 0.1lx (B/W, F1.8, Gain High) 2lx (colour)
- 3 mode Backlight Compensation
- Electronic Shutter
- Sensitivity Boost
- Optical Zoom upon Alarm in / Motion detection
- Alarm out upon Motion detection
- External Alarm terminal In (2) Out (1)
- 8 Zoom Preset position
- 2 Pre-defined camera view settings
- 4 Privacy masking
- Remote Zoom/Focus/Menu set-up by VAC-70
- Internal recording to SD/SDHC memory card or External HDD via USB
- DC12-15V/AC24V/PoE

OPTIONS

- Wide conversion lens
- VA-HDC4000 HDD Caddy



Network Cameras

SANYO's Network Cameras are full of great features

SANYO network camera and network optional board with the latest H.264 compression technology provide the optimum surveillance applications with high quality real time moving image at low bandwidth.

Simultaneous stream of H.264 and JPEG data and also COAX video out to provide flexible solution for digital and analogue combined system.

A network camera is a system that allows the user to view the image captured by a camera on a network-connected PC. The camera is suitable for remote surveillance systems, distribution of live video, and other security systems and supports JPEG/H.264. Its ability to transmit stable video over a network makes it an ideal choice for remote surveillance. Images monitored over a network can be checked using a general-purpose web browser (Internet Explorer) or Network Monitoring Software VA-SW50, VA-SW60 and VA-SW3050.



Transmission using 2 types of codecs

For video compression, H.264, optimized for transmission of moving images over a network with low bit transfer rates, is used to enable real-time high image-quality monitoring, and for still images JPEG is used to offer high image-quality in a common image format. Monitoring can be performed according to the user's application, so that any important scene is not missed.

Use of a PC for Monitoring

By simply using a standard web browser, like Internet Explorer, on a personal computer, the user has access to the full color video image from the camera. The 30x optical zoom function of the 600 series makes it possible to obtain a clear picture, even in the zoom-in mode. Recording the JPEG image on a PC is also possible by the use of VASW3050S (for server) software.

Power-over-Ethernet (PoE)

The VCC-N6695P, VCC-ZMN600P and VCC-XZN600P support the IEEE 802.3af standard for Power-over-Ethernet (PoE) application to allow power to be supplied over LAN cabling. In addition to making installation easier, this allows camera installation in places where it would otherwise be difficult to secure a power source.

E-mail Function

A setting for automatic sending of mail (up to 5 addresses can be set) is provided. By using this setting, an alarm notification e-mail can be set when an alarm is detected. Or, e-mails can be sent at regular intervals. In either case, an image can be attached to the e-mail.

Schedule Setting

Timer sending or alarm notification can be performed during a specified time period. The following 5 functions are provided: TIMER (SMTP) for timer sending of e-mail, TIMER (FTP) for timer sending of images via FTP mode, ALARM (SMTP) for e-mail notification of an alarm, ALARM (FTP) for sending of alarm images via FTP mode, and REMOTE ALARM "ACTIVE" for enabling camera alarm output 2 by remote operation.

Audio Communication & Remote Operating

Selected products support bi-directional audio communication and remote operation using alarm output terminal.

Network Cameras



VCC-ZMN600P

DAY/NIGHT · 30x

Day/Night Zoom Network Camera

NETWORK

- H.264 / JPEG dual streaming and COAX Video output
- H.264 Frame rate max 25ips (720 x 576)
- JPEG Frame rate max 25ips (720 x 576)
- Support SANYO Dynamic DNS for fixed host name
- Schedule transmission of image (FTP) / e-mail (SMTP)
- Alarm transmission of image (FTP) / e-mail (SMTP)
- Internal Alarm Buffer
- Max. 16 user access
- Power over Ethernet
- Internet Explorer access
- VA-SW3050LITE viewing software

CAMERA

- 1/4" CCD, 540Tvl Resolution
- 30x Optical Zoom & 16x digital Zoom
- IR sensitive with mechanical IR Cut filter release
- Minimum illumination 0.04lx (B/W, F1.4, Gain High) 0.8lx (colour)
- 3 mode Backlight Compensation
- 13 mode Electronic Shutter Speeds
- 32x Sensitivity Boost
- Image Stabilizer
- Optical Zoom upon Alarm in / Motion detection
- Alarm out upon Motion detection
- External Alarm terminal In (2) Out (1)
- 8 Zoom Preset position
- 2 Pre-defined camera view settings
- 4 Privacy masking
- Remote Zoom/Focus/Menu set-up by VAC-70
- DC12-15V/AC24V/PoE



VCC-XZN600P

DAY/NIGHT · 30x

Weatherproof Day/Night Zoom Network Camera

NETWORK

- H.264 / JPEG dual streaming and COAX Video output
- H.264 Frame rate max 25ips (720 x 576)
- JPEG Frame rate max 25ips (720 x 576)
- Support SANYO Dynamic DNS for fixed host name
- Schedule transmission of image (FTP) / e-mail (SMTP)
- Alarm transmission of image (FTP) / e-mail (SMTP)
- Internal Alarm Buffer
- Max. 16 user access
- Power over Ethernet
- Internet Explorer access
- VA-SW3050LITE viewing software

CAMERA

- IP66 weatherproof housing for easy external installation
- 1/4" CCD, 540Tvl Resolution
- 30x Optical Zoom & 16x digital Zoom
- IR sensitive with mechanical IR Cut filter release
- Minimum illumination 0.04lx (B/W, F1.4, Gain High) 0.8lx (colour)
- 3 mode Backlight Compensation
- 13 mode Electronic Shutter Speeds
- 32x Sensitivity Boost
- Image Stabilizer
- Optical Zoom upon Alarm in / Motion detection
- Alarm out upon Motion detection
- External Alarm terminal In (2) Out (1)
- 8 Zoom Preset position
- 2 Pre-defined camera view settings
- 4 Privacy masking
- Remote Zoom/Focus/Menu set-up by VAC-70
- DC12-15V/AC24V/PoE

OPTIONS

- DPTCH : Pole Mount Adapter
- DCWGH : Corner Mount Adapter
- VA-XZBX : Back box



NEW

VCC-N6695P

DAY/NIGHT

High-Resolution Colour/Mono Network Camera



NETWORK

- H.264 / JPEG dual streaming and COAX Video output
- H.264 Frame rate max 25ips (720 x 576)
- JPEG Frame rate max 25ips (720 x 576)
- Support SANYO Dynamic DNS for fixed host name
- Schedule transmission of image (FTP) / e-mail (SMTP)
- Alarm transmission of image (FTP) / e-mail (SMTP)
- Internal Alarm Buffer
- Max. 16 user access
- Power over Ethernet
- Network settings reset switch
- Internet Explorer access
- VA-SW3050LITE viewing software

CAMERA

- 1/3" CCD, 540 TVL Resolution
- Automatically switch to B/W (non-IR sensitive)
- Colour / DN setting selectable
- Minimum illumination 0.25lx (B/W, F1.2, Gain High) 0.35lx (colour)
- 2 mode Backlight Compensation
- Electronic iris
- External Alarm terminal In (1) Out (1)
- CS mount
- DC iris lens only
- DC12-15V/AC24V/PoE



VA-80LAN / VA-82LAN

Network option board for
PTZ High Speed Dome Cameras

- H.264 / JPEG dual streaming and COAX Video output (VA-82LAN)
- JPEG streaming and COAX Video output (VA-80LAN)
- H.264 Frame rate max 25ips (720 x 576) (VA-82LAN)
- JPEG Frame rate max 25ips (720 x 576) (VA-82LAN)
- JPEG Frame rate max 25ips (720 x 286) (VA-80LAN)
- Bi-directional Audio
- Support SANYO Dynamic DNS for fixed host name (VA-82LAN)
- Schedule transmission of image (FTP) / e-mail (SMTP)
- Alarm transmission of image (FTP) / e-mail (SMTP)
- Scheduled Auto-mode (SEQ/APN/TOUR/PRESET/AUX)
- Internal Alarm Buffer
- Max. 16 user access
- Internet Explorer access
- VA-SW3050LITE viewing software

CAMERA
Please refer VCC-9500/9600/9700/9800 series specifications

PAN-FOCUS Network Cameras



VA-50LAN / VA-51LAN

Network option board for Pan-Focus Cameras

NETWORK
- JPEG streaming and COAX Video output
- JPEG Frame rate max 25ips (720 x 286)
- Bi-directional Audio (VA-51LAN)
- Internal Alarm Buffer
- Max. 16 user access
- Power over Ethernet (VA-51LAN)
- Internet Explorer access
- VA-SW3050LITE viewing software

CAMERA Please refer VCC-P7575PA, VDC-DP7585P specifications



VA-20LAN

Network option board for Pan-Focus Weatherproof Camera

NETWORK
- JPEG streaming and COAX Video output
- JPEG Frame rate max 25ips (720 x 286)
- Internal Alarm Buffer
- Max. 16 user access
- Internet Explorer access
- VA-SW3050LITE viewing software

CAMERA Please refer VCC-XZ200P specifications

Network Recording



DSR-HB8000

Hybrid DVR

- 16ch DVR/NVR can record up to 8 SANYO network cameras (JPEG Video)
- Network PTZ camera control
- Monitor plus function to operate another 4units DSR-HB8000
- Support NAS (Network Attached Storage)
- Max. 20 network user access
- Network Utility software
- Internet Explorer access
- Central Management Software (Connect up to 4 DVR's)

OPTION

- Central Management Software USB Key (Connect up to 100 DVR's and MAP function)



VA-SW3050S / VA-SW3050C

Network Recording Software

- Record and monitoring up to 128 SANYO network cameras (JPEG Video & Audio) (Maximum 16 cameras recording per PC recommended)
- Network PTZ camera control
- Time/Date search
- 16 / 4 / 1 Screen display
- Timer /Alarm recording
- Max 10 Client per Server (each Client PC requires VA-SW3050C)
- Client access to Server (Playback) using Windows Share folder facility
- Client access to Server (Playback) over Router using VPN



VA-SW60 (ENTERPRISE EDITION)

Video Management software

- Client / Server system
- Unlimited number of camera support
- SANYO DVRs supported (live view / remote recording / PTZ camera operation via DVR)
- Unlimited number of client access
- Client can be connected to multiple server
- Time-lapse recording and Motion recording
- Network PTZ camera operation
- User friendly GUI operation
- JPEG & H.264 live / record support



VA-SW50 (ADVANCED EDITION)

Video Management software

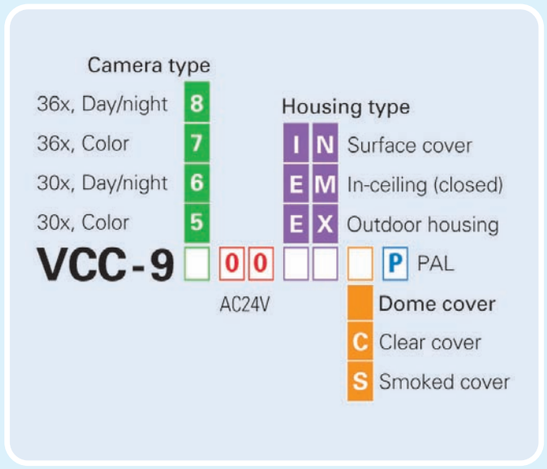
- Client / Server system
- Up to 16 camera
- Up to 5 clients
- Client can be connected to multiple server
- Time-lapse recording and Motion recording
- Network PTZ camera operation
- User friendly GUI operation
- JPEG & H.264 live / record support



SANYO

Model Selector

Select the perfect camera for your application by entering the options listed in the diagram below.



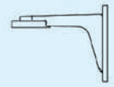
Optional Accessories



VA-80BP
Indoor Pendant Mounting Bracket



VA-80AC
Corner Mount Bracket for VA-80BW



VA-80BW
Wall Mount Bracket



VA-80AP
Pole Mount Bracket for VA-80BW



VA-80A
Indoor Dome Back Cover



VA-80AB
Swan Neck Bracket Adapter

NETWORK OPTION
VA-80 LAN Jpeg
VA-82 LAN Jpeg/H.264

30x & 36x Optical Zoom High-Speed Dome Cameras

The camera makes it possible to capture the image of exact point of surveillance with high speed panning of 435º/sec. between pre-set positions. This accurate mechanism is capable of capturing quickly moving objects and objects approaching the camera when it is zoomed in.

VCC-9500P

30x R/G/B OPTION

x30 Colour PTZ High Speed Dome Camera

- 540 TV lines
- ¼" colour CCD
- 30x optical zoom
- 16x digital zoom
- Lens f=3.5-105 mm, F1.4 – 3.7, 30x optical zoom
- Minimum illumination 0.8 lx (F1.4, 50IRE, Gain: high)
- Panning speed 435°/sec (1-120°/sec at manual)
- 128 preset position
- 8 alarm inputs/2 alarm outputs
- Motion detection
- Digital auto flip
- Backlight compensation
- Extended privacy masking (24x)
- Network (optional)
- 24V AC operation

VCC-9600P

30x DAY/NIGHT OPTION

x30 Day/Night PTZ High Speed Dome Camera

- 540 TV lines
- ¼" colour CCD
- x30 optical zoom
- x16 digital zoom
- Lens f=3.5-105 mm, F1.4 – 3.7,
- Day/Night function
- Minimum illumination 0.04 lx (F1.4, 50IRE, B/W mode)
- Panning speed 435°/sec. (1-120°/sec at manual)
- 128 preset position
- 8 alarm inputs/2 alarm outputs
- Motion detection
- Digital auto flip
- Backlight compensation
- Extended privacy masking (24x)
- Network (optional)
- 24V AC operation

Full technical specification online at www.uk.sanyo.com

VCC-9700P

36x R/G/B OPTION

x36 Colour PTZ High Speed Dome Camera

- 540 TV lines
- ¼" colour CCD
- x36 optical zoom
- x16 digital zoom
- Lens f=3.4-122.4 mm, F1.6 – 4.5
- Minimum illumination 1.0 lx (F1.6, 50IRE, Gain: high)
- Panning speed 435°/sec (1-120°/sec at manual)
- 256 preset position
- 8 alarm inputs/2 alarm outputs
- Image Stabilizer
- Motion detection
- Digital auto flip
- Backlight compensation
- Automatic pursuit
- Extended privacy masking (24x)
- Network (optional)
- 24V AC operation

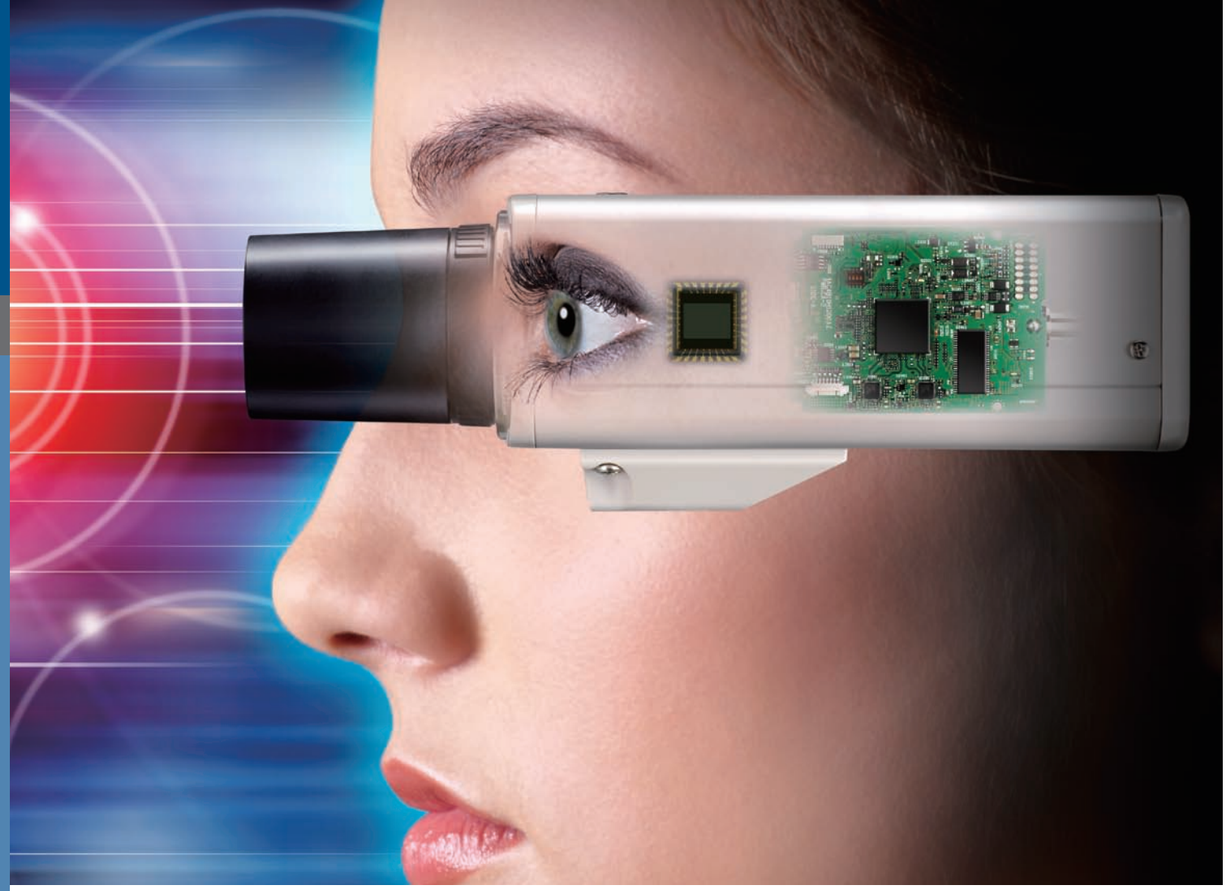
VCC-9800P

36x DAY/NIGHT OPTION

x36 Day/night PTZ High Speed Dome Camera

- 540 TV lines
- ¼" colour CCD
- x36 optical zoom
- x16 digital zoom
- Lens f=3.4-122.4 mm, F1.6 – 4.5, 36x optical zoom
- Day/Night Function
- Minimum illumination 0.05 lx (F1.6, 50IRE, B/W mode)
- Panning speed 435°/sec. (1-120°/sec at manual)
- 256 preset position
- 8 alarm inputs/2 alarm outputs
- Image Stabilizer
- Motion detection
- Digital auto flip
- Backlight compensation
- Automatic pursuit
- Extended privacy masking (24x)
- Network (optional)
- 24V AC operation





SANYO

Full of fantastic features...

- New CMOS sensor delivers the widest dynamic range yet.
- SANYO Advanced Image processing engine produces richer and smoother gradations than previously possible.
- New and advanced linear output method captures quick motion with great stability and reproduces contours with a clarity never previously achieved.
- Premium Bayer Mosaic RGB filter delivers highly realistic and vivid colours.
- Auto White Balancing System ensures consistent and natural lifelike colours.
- High sensitivity with minimum illumination of 0.8 lux allows dimly lit subjects to be reproduced in fantastic colour.
- Digital Noise Reduction achieves images virtually free of noise.

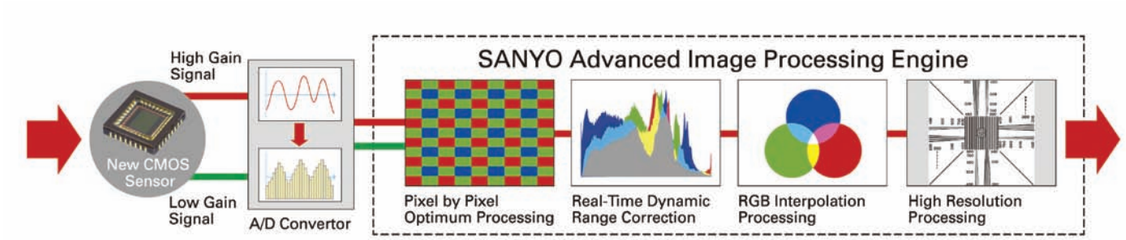
Advanced Wide Dynamic Range Cameras

Enhanced surveillance that compares favourably to the human eye

Reproducing images more naturally and with greater clarity, the SANYO "Advanced WDR" Surveillance Camera achieves significantly greater dynamic range utilizing SANYO's own innovative technologies.

By adopting a radically new linear output method, SANYO has created a security-optimized camera delivering superb performance under varying light conditions and one which utilizes a new "retina-morphic processing algorithm" for capabilities approaching the human retina. Surveillance now reaches a higher level of performance than thought possible.

Advanced WDR Image Procession System





VCC-W8775P / W8770P AWD R/G/B VAC 70

Advanced Wide-D Colour Camera

- 1/3" CMOS, 550 TVL Resolution
- Wide Dynamic range 65dB
- SANYO AIP Engine
- Digital Noise Reduction
- Minimum illumination 0.8lx (F1.2)
- Backlight Compensation
- 8 mode Electronic Shutter Speeds
- Electronic iris
- Remote Menu set-up by VAC-70
- CS mount
- DC iris lens only
- DC12-15V/AC24V (VCC-W8775P)
- AC220-230V (VCC-W8770P)



VCC-WD8875P / 8870P AWD DAY/NIGHT VAC 70

Advanced Wide-D Day/Night Camera

- 1/3" CMOS, 550 TVL Resolution
- IR sensitive with mechanical IR Cut filter release
- Wide Dynamic range 65dB
- SANYO AIP Engine
- Digital Noise Reduction
- Minimum illumination 0.08lx (B/W, F1.2) 0.8lx (colour)
- Backlight Compensation
- 8 mode Electronic Shutter Speeds
- Electronic iris
- Remote Menu set-up by VAC-70
- CS mount
- DC iris lens only
- DC12-15V/AC24V (VCC-WD8875P)
- AC220-230V (VCC-WD8870P)

Full technical specification online at www.uk.sanyo.com



PAN-FOCUS

The vandal-resistant dome camera that makes installation easy and features a Pan-Focus lens for a picture that's always in focus



Realises a high-definition picture and a reduction of resources spent on installation and management with a Pan-Focus lens that brings all points on screen into focus while maintaining a horizontal resolution of more than 520 TV lines. Mountable on ceilings and walls and enclosed in a rugged, weatherproof housing (IP66 rating) that provides protection against the elements for outdoor use and allows it to withstand attempts by intruders to disable it.

More than this, it analyses changes in the area under surveillance and senses moving objects in the field of view via a motion detector; allows surveillance on a 24/7 basis under conditions of both day and night; and enables the development of more robust surveillance systems.



Pan-Focus Range

When using a varifocal lens, objects in front and behind the main focus point appear blurred. This has led to the development of deep-focus techniques allowing simultaneous focusing on all objects in the field of view. Early research and development by SANYO has resulted in the successful product development of a x2.6 pan-focus lens offering a picture with a greater depth of field.

Now clearer pictures, even of distant objects, can be achieved with cameras for surveillance applications.



Pan-Focus Lens Image

- Clear focusing on shooting area with great depth of field.
- No focus adjustments.
- Remote zoom adjustment possible with VAC-70 camera control unit and VA-50ST board option.



Varifocal Lens Image

- Clear focusing on a specific area
- Manual focus adjustments
- Manual zoom adjustments

PAN-FOCUS
Colour Dome Cameras - Internal Use



VCC-P7575PA

Pan-Focus Colour
Dome Camera

- ¼" Interline Transfer Method CCD
- 520 TV Lines of Horizontal Resolution
- 2.6x Motorised Zoom Pan Focus Lens
- Minimum Illumination 1.9 Lux (F1.9 High Gain)
- Motion Detection
- Privacy Masking
- Remote Zoom/Focus/Menu Set-up via Coax
- Easy Installation, Adjustment and Set-up
- 24 V AC / 12V to 15V DC

OPTIONS
- VA-50ST – Twisted Pair, NVT, SSP
- VA-50LAN Network option board (Motion JPEG)
- VA-51LAN Network option board (PoE, Audio)
- VCZ-50 Smoked Cover
- VA-DK02 Flash Mount Bracket

PAN-FOCUS
Dome Cameras - Vandal Resistant



VDC-DP7585P

Pan-Focus Day/Night
Vandal Resistant Dome Camera

- ¼" Interline Transfer Method CCD
- 520 TV Lines of Horizontal Resolution
- IP66 Rated
- Vandal Resistant Mini Dome
- 2.6x Motorised Zoom Pan-Focus Lens
- Minimum Illumination 1.2Lux (F1.9 Colour) 0.06Lux (F1.9 B/W)
- Motion Detection
- Privacy Masking
- Remote Zoom/Focus/Menu Set-up via Coax
- Easy Installation, Adjustment and Set-up
- 12-15V DC / 24V AC

OPTIONS
- VA-50ST – Twisted Pair, SSP, NVT
- VA-50LAN Network Option Board (Motion JPEG)
- VA-51LAN Network Option Board (PoE, Audio)
- VA-DK02 Flash Mount Bracket
- VA-50H – Heater for Pan-Focus range

Exceptionally tough vandal resistant covers



Rugged Construction

SANYO's Pan-Focus Dome Cameras are housed in an exceptionally tough die-cast aluminium enclosure and a polycarbonate dome for extra durability under the most demanding of conditions. To protect against tampering, the fixing screws of the enclosure cover have a unique shape that prevents it from being opened with ordinary tools.

IP66 Rated Weatherproof Design

The camera's protective enclosure safely meets the IP66 standard for resistance against water and dust.

IP66 WEATHER RESISTANT

Optional Accessories

- VA-DK02 Flash-mount bracket
- VCZ-50 Smoked Cover (For Internal Dome)

PAN-FOCUS Weatherproof Camera



IP66 WEATHER RESISTANT

VCC-XZ200P

VAC 70 | DAY/NIGHT | OPTION

Pan-Focus Day/Night Weatherproof Zoom Camera

CAMERA
- 1/4" Interline Transfer Method CCD
- IP66 Rated
- External Housing
- 520 TV Lines of Horizontal Resolution
- Minimum Illumination 1.2 Lux (F1.9, Colour Mode) 0.06 Lux (F1.9, B/W Mode)
- 2.6 X Motorised Zoom Pan-Focus Lens
- Motion Detection
- Privacy Masking
- Remote Zoom / Focus / Menu Set-Up Via Coax (with Optional VAC-70)
- 24 V AC / 12V To 15V DC
- Easy Installation, Adjustment and Set-Up

OPTIONS
- VA-20ST – Twisted Pair, NVT, SSP
- VA-20LAN – Network Option Board (Motion JPEG)
- VA-50H – Heater for Pan-Focus Range
- DPTCH – Pole Mount Adapter
- DCWGH – Corner Mount Adapter
- VA-XZBX – Back box

Accessories for Pan-Focus Cameras

- VA-50LAN - Jpeg Expansion board for network connection for VDC-DP7585P and VCC-P7575PA.
 Please refer to Page 13 for further detail.
- VA-51LAN – Jpeg Expansion board for network connection for VDC-DP7585P and VCC-P7575PA.
 Please refer to Page 13 for further detail.
- VA-50ST – SSP + Twisted pair board for VDC-DP7585P and VCC-P7575PA. Enables the control via RS-485 (SSP/PELCO-D) and coaxial cable (SSP/H-SSP/PELCO-C), Twisted pair Terminal (CAT5) for Video signal (NVT built-in UTP video)
- VA-20LAN - Jpeg Network board for Pan-Focus VCC-XZ200P
 Please refer to Page 13 for further details
- VA-20ST – SSP + Twisted pair board for VCC-XZ200P
 Enables the control via RS-485 (SSP/PELCO-D) and coaxial cable (SSP/H-SSP/PELCO-C) , Twisted pair Terminal (CAT5) for Video signal (NVT built-in UTP video)
- VA-50H - Heater board for Pan-Focus VCC-XZ200P, VDC-DP7585P, VDC-DPN9585P and VDC-DP9585P
 The heater board protects the camera from cold weather. It allows the camera to operate at temperatures of -30°C to +50°C and with humidity within 90%. (For VDC-DP9585P, AC24V use only)

- VA-50BW - Wall mounting bracket (indoor use)
- VA-50BPL - Ceiling suspension bracket (long)
- VA-50BPS - Ceiling suspension bracket (short)
- VA-50AL - VA-50BW attachment (Vandal Resistant Pan-Focus Dome)
- VA-50AS - VA-50BW attachment (Internal Pan Focus Dome)
- VCZ-50 - Smoked cover for Pan-Focus Camera
- VA-DK02 - Flash Mount Bracket for:
 Pan-Focus Domes (Internal & Vandal Resistant)
 Vandal Resistant Domes
 VCC-9685VP

30x Zoom Cameras

VCC-XZ600P DAY/NIGHT VAC 70 30x

Weatherproof Day/Night Zoom Camera



- IP66 weatherproof housing for easy external installation
- 1/4" CCD, 540Tvl Resolution
- 30x Optical Zoom & 16x digital Zoom
- IR sensitive with mechanical IR Cut filter release
- Minimum illumination 0.04lx (B/W, F1.4, Gain High) 0.8lx (colour)
- 3 mode Backlight Compensation
- 13 mode Electronic Shutter Speeds
- 32x Sensitivity Boost
- Image Stabilizer
- Optical Zoom upon Alarm in / Motion detection
- Alarm out upon Motion detection
- External Alarm terminal In (2) Out (1)
- 8 Zoom Preset position
- 2 Pre-defined camera view settings
- 4 Privacy masking
- Remote Zoom/Focus/Menu set-up by RS485 & COAX (Pelco-D, Pelco-C, SANYO RS485, SANYO COAX, VAC-70)
- Twisted pair video (NVT)
- DC12-15V/AC24V

OPTIONS

- DPTCH : Pole Mount Adapter
- DCWGH : Corner Mount Adapter
- VA-XZBX : Back box



VCC-ZM600P DAY/NIGHT VAC 70 30x

Day/Night Zoom Camera

- 1/4" CCD, 540Tvl Resolution
- 30x Optical Zoom & 16x digital Zoom
- IR sensitive with mechanical IR Cut filter release
- Minimum illumination 0.04lx (B/W, F1.4, Gain High) 0.8lx (colour)
- 3 mode Backlight Compensation
- 13 mode Electronic Shutter Speeds
- 32x Sensitivity Boost
- Image Stabilizer
- Optical Zoom upon Alarm in / Motion detection
- Alarm out upon Motion detection
- External Alarm terminal In (2) Out (1)
- 8 Zoom Preset position
- 2 Pre-defined camera view settings
- 4 Privacy masking
- Remote Zoom/Focus/Menu set-up by RS485 & COAX (Pelco-D, Pelco-C, SANYO RS485, SANYO COAX, VAC-70)
- Twisted pair video (NVT)
- DC12-15V/AC24V



VCC-ZM500P R/G/B VAC 70 30x

Colour Zoom Camera

- 1/4" CCD, 540Tvl Resolution
- 30x Optical Zoom & 16x digital Zoom
- Minimum illumination 0.8lx (Max AGC)
- 3 mode Backlight Compensation
- 13 mode Electronic Shutter Speeds
- 32x Sensitivity Boost
- Optical Zoom upon Alarm in / Motion detection
- Alarm out upon Motion detection
- External Alarm terminal In (2) Out (1)
- 8 Zoom Preset position
- 2 Pre-defined camera view settings
- 4 Privacy masking
- Remote Zoom/Focus/Menu set-up by RS485 & COAX (Pelco-D, Pelco-C, SANYO RS485, SANYO COAX, VAC-70)
- DC12-15V/AC24V



Colour & Day/Night Cameras

SANYO's range of Colour and Day/Night cameras are perfect for a host of different applications



VCC-6695P/6690P DAY/NIGHT

High-Resolution Colour/Mono Camera

- 1/3" CCD, 540Tvl Resolution
- Automatically switch to B/W (non-IR sensitive)
- Colour / DN setting selectable
- Minimum illumination 0.25lx (B/W, F1.2, Gain High) 0.35lx (colour)
- 2 mode Backlight Compensation
- 8 mode Electronic Shutter Speeds (VCC-6690P only)
- Electronic iris
- CS mount
- DC iris lens only
- DC12-15V/AC24V (VCC-6695P)
- AC220-230V (VCC-6690P)



VCC-4790P / 4795P DAY/NIGHT

High-Resolution Day/Night Camera

- 1/3" CCD, 540Tvl Resolution
- IR sensitive with mechanical IR Cut filter release
- Minimum illumination 0.01lx (B/W, F1.2, Gain High) 0.45lx (colour)
- 2 mode Backlight Compensation
- 7 mode Electronic Shutter Speeds
- Electronic iris
- CS mount
- DC iris lens only
- DC12-15V/AC24V (VCC-4795P)
- AC220-230V (VCC-4790P)

VCC-5995P R/G/B

High-Resolution Colour Camera

- 1/3" CCD, 540 TVL Resolution
- Compact size cabinet W63 x H68 x D52mm
- Minimum illumination 0.5lx (F1.2, Gain High)
- Center-Zone Backlight Compensation
- Electronic iris
- CS mount
- DC iris lens only
- DC12-15V/AC24V

NEW



Vandal Resistant Dome Cameras



WD IP66 WEATHER RESISTANT

VDC-W1595VP

Vandal resistant Wide Dynamic Range Camera

- 1/3" CCD, 480Tvl Resolution
- IP66 rated
- Vandal resistant
- Dual exposure wide dynamic mode (54dB)
- 2.6mm to 6.0mm Auto Iris Varifocal lens
- Minimum illumination 1.0lx (F1.4)
- Wall and Ceiling mount
- DC12-15V/AC24V

OPTIONS
- VA-DK02 : In-ceiling bracket



DAY NIGHT IP66 WEATHER RESISTANT

VDC-D1585VP

Vandal resistant Day/Night Camera

- 51/3" CCD, 520Tvl Resolution
- IP66 rated
- Vandal resistant
- IR sensitive with mechanical IR Cut filter release
- 2.6mm to 6.0mm Auto Iris Varifocal lens
- Minimum illumination 0.05lx (B/W, F1.4) 1.0lx (colour)
- Backlight Compensation
- Wall and Ceiling mount
- DC12-15V/AC24V

OPTIONS
- VA-DK02 : In-ceiling bracket



R/G/B IP66 WEATHER RESISTANT

VDC-C1575VP

Vandal resistant Colour Camera

- 1/3" CCD, 520Tvl Resolution
- IP66 rated
- Vandal resistant
- 2.6mm to 6.0mm Auto Iris Varifocal lens
- Minimum illumination 1.0lx (F1.4)
- Backlight Compensation
- Wall and Ceiling mount
- DC12-15V/AC24V

OPTIONS
- VA-DK02 : In-ceiling bracket



NEW

DAY NIGHT IP66 WEATHER RESISTANT

VDC-D1785IRVP

Vandal resistant Day/Night Dome Camera with IR LED

- 1/3" CCD, 540 TVL Resolution
- 18 IR LEDs (850nm)
- IP67 rated
- Vandal resistant
- 3.7mm to 12mm Auto Iris Varifocal IR lens
- Minimum illumination 0lx (B/W, F1.4, LED ON) 0.7lx (colour)
- Backlight Compensation
- Wall and Ceiling mount (surface / embedded)
- DC12V/AC24V



Mini Dome Camera



VCC-9685VP R/G/B

High-Resolution Colour Mini Dome Camera

- 1/4" CCD, 540Tvl Resolution
- 2.8mm to 8mm Auto Iris Varifocal lens
- Minimum illumination 0.5lx (F0.95)
- 2 mode Backlight Compensation
- 4 mode Electronic Shutter Speeds
- Wall and Ceiling mount
- DC12-15V/AC24V

OPTIONS
- VA-10T : Twisted pair video board(NVT)
- VCZ-50 : Smoked dome cover
- VA-DK02 : Flash mount bracket



Digital Hard Disk Recorders

Whether you require the highest digital quality, extensive capacity, ultimate flexibility or simply a reliable recording CCTV system, SANYO can provide the right solution.



DSR-HB8000

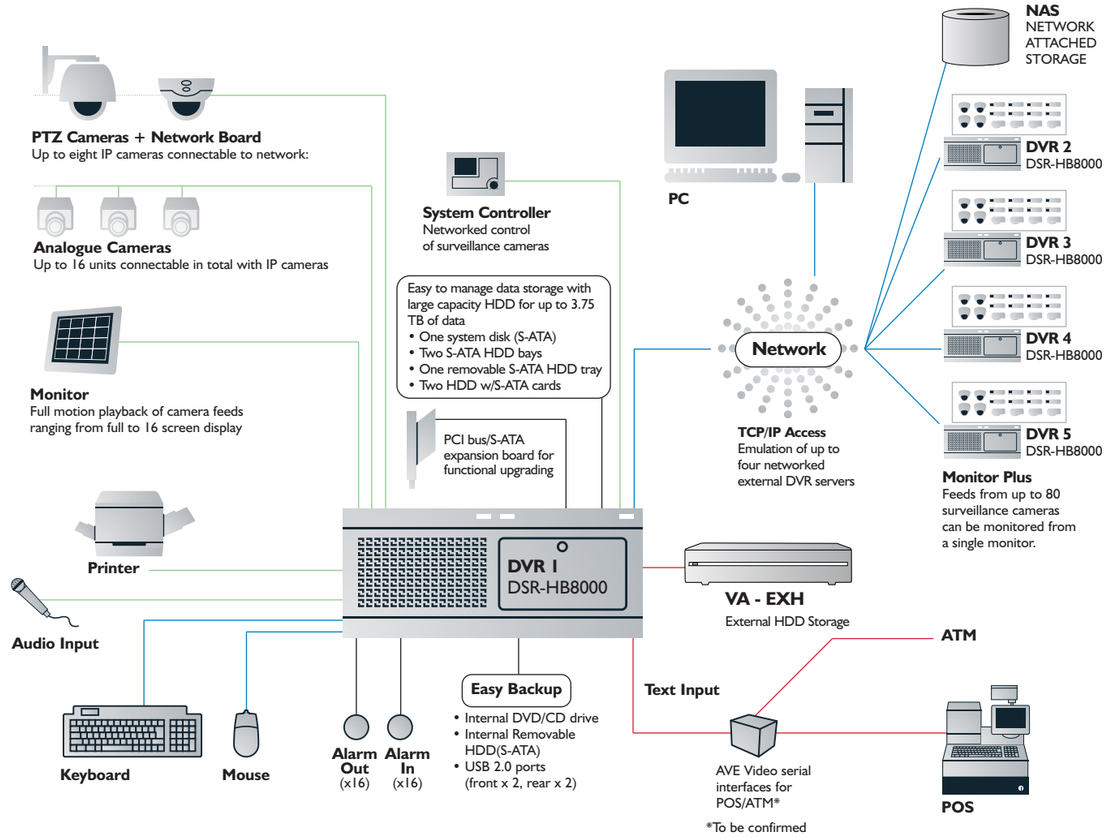
Hybrid Digital Video Recorder

- Monitor Plus enables monitoring of up to 80 cameras
- Camera coaxial telemetry control
- Hybrid specs for connection of up to 16 analogue and IP cameras (8 units max.)
- Expandable large capacity HDD for up to 3.75 TB (750GB x 5 bays) including removable drive
- Simultaneous recording and playback
- Live picture monitoring (400 IPS/16 ch)
- Real-time recording speeds for high picture quality: 400 IPS (360 x 288), 200 IPS (720 x 288), 100 IPS (720 x 576)
- Versatile full network capability
- Central Management Software



DSR HB8000 Centred Network System

Realize high-quality recording and delivery of streams from up to 16 analogue and IP camera in real-time



Camera Coaxial Telemetry Control

The DSR-HB8000 allows the user to control PTZ and zoom cameras. The unit transmits H-SSP signals by overlaying them on to the video signal through a coaxial cable. This makes it possible to control cameras that support coaxial HSSP transmission without any additional device other video cable, and also from a SANYO controller or over a network. In addition, Pelco and BBV cameras can also be controlled if they support coaxial signal transmission.

Adoption of MPEG-4+ for high-quality moving pictures

The DSR-HB8000 employs a unique image compression format called MPEG-4+, which has been adapted for speedy, high-quality data transmission over a network and special fastforward and reverse playback. The conventional MPEG-4 format can of course also be selected to meet a broad range of needs, including long-term image recording, high-quality audio playback and secure transmission of control signals.



New digital security systems integrating analogue and IP cameras into a single system

The DSR-HB8000's hybrid design allow concurrent connection and control of both IP network and conventional analogue cameras. Up to four IP cameras such as network pan-focus PTZ cameras or the PTZ cameras with network board options can be connected for use with analogue cameras for a total of 16 surveillance cameras in all.





DSR-HB8000



DSR-5709PD/DSR-5716PD

9/16-Channel Hard Disk Recorder with CD/DVD Writer

- HDD recorder with 9 or 16 channel multiplexer
- Simultaneous recording and playback at 100 IPS
- Picture Resolution 720 x 288 (pixels)
- Live picture monitoring at 450 (50 x 9) IPS/800 (50 x 16) IPS
- Built-in H-SSP controller with camera telemetry control
- Network Capability
- JPEG2000 compression
- VA-SW5000 DVR management software

OPTIONS
- VZU-SATB1, S-ATA board for VA-EXH Connection



DSR-5716P/DSR-5709P

9/16-Channel Hard Disk Recorder

- HDD recorder 9 or16 channel multiplexer
- Simultaneous recording and playback at 100 IPS
- Picture Resolution 720 x 288 (pixels)
- Live picture monitoring at 450 (50 x 9) IPS/800 (50 x 16) IPS
- Built-in H-SSP controller with camera telemetry control
- Network Capability
- JPEG2000 compression
- VA-SW5000 DVR management software

OPTIONS
- VZU-SATB1, S-ATA board for VA-EXH Connection

These models feature the following:

- JPEG 2000 Compression Technology
- Network Capability: Live/Playback/Multichannel Download
- Telemetry Control and Preset upon Alarm recording
- Storage Capacity with External HDD Unit VA-EXH or RAID unit
- Special 'Region of Interest' feature (ROI) - Variable resolution within an image



VA-EXH

- External HDD Unit for DSR-57XX series
- Storage for up to 4 HDD's
- HDD Size up to 3Tb

SANYO

Expert digital security systems



DSR-2004

4-Channel Hard Disk Recorder

- MPEG 4 Compression
- Up to 100ips Recording rate
- Simultaneous Record and Playback
- Camera telemetry (Front panel and Network operation) via RS485
- Motion detection
- Pre & Post Alarm recording
- 4ch Audio recording
- Time/Date, event and timeline search
- Full integration with LAN connection
- USB 2.0 port (Flash drive) for data download (JPEG & AVI)
- COAX and VGA monitor out (exclusive)
- IR remote control
- 4 Alarm input, 1 Alarm output
- Compact Size 350mm width



DSR-2016

16-Channel Hard Disk Recorder

- MPEG 4 Compression
- Up to 200ips Recording rate
- Simultaneous Record and Playback
- Camera telemetry (Front panel, Controller & Network operation) via RS485
- Motion detection
- Pre & Post Alarm recording
- 4ch Audio recording
- Time/Date, event and timeline search
- Full integration with LAN connection
- Built in CD writer & USB 2.0 port (Flash drive) for data download (JPEG & AVI)
- COAX and VGA Main monitor out (exclusive)
- COAX spot monitor out
- IR remote control
- 16 Alarm input, 4 Alarm output



System Controllers

VSP-9000 Touch-Screen Control Keyboard

The VSP-9000 keyboard allows the control of SANYO Digital Recorders and dome cameras through the implementation of the proprietor Marco Protocol. The Graphical User Interface (GUI) and control keys can be tailored to meet the needs of the individual end user, making it a very easy yet flexible solution. Additional pictures or maps can be imported on to the main screen to enable ease of identification and direction.



VSP-9000

Touch-Screen Control Keyboard

- Touch Screen Control Keyboard
- Telemetry Control
- Graphic Display 320x240 pixels
- Three axis Joystick
- Communication
 - RS485 Serial Communication towards DVR
 Two Independent RS485 Telemetry Lines
 - RS 232C/485 Serial Communication towards PC for Software Configuration
- Virtual Keyboard Touch Screen
- Possibility to customise start up screen
- Possibility to customise 26 maps and 40 virtual keys



VSP-8500

Control Keyboard

- Three axis joystick (Pan/Tilt/Zoom)
- Four line backlit LCD display
- Up to 256 units of RS485 equipment can be controlled. (up to 98units DVRs, 254units cameras (port A & B) and 1unit Matrix switcher)
- 5 x VSP-8500 can be used in a RS485 system
- Communication, 1 x RS485 Video port, 2 x RS485 Independent telemetry port

Single Camera Controller





The VAC-70 is a remote camera controller compatible with many SANYO cameras, and allows the user remote control for easy set-up

Monitors

A range of monitors including LCD and CRTs. Sizes vary from 15" to 20", providing high quality displays for any application.



VMC-L2019P

19" LCD video & data monitor

- 500Tvl Resolution (Y/C input)
- 4:3 SXGA LCD panel
- 1000:1 contrast ratio
- 300 cd/m2 brightness
- Viewing angle 160 deg(H/V)
- Picture in Picture
- 2 composite BNC in/out
- 1 Y/C in/out
- 1 VGA input
- 2 Audio inputs (1W+1W stereo speaker)
- Height and Tilt adjustment



VMC-L2017P

17" LCD video & data monitor

- 500Tvl Resolution (Y/C input)
- 4:3 SXGA LCD panel
- 1000:1 contrast ratio
- 300 cd/m2 brightness
- Viewing angle 160 deg(H/V)
- Picture in Picture
- 2 composite BNC in/out
- 1 Y/C in/out
- 1 VGA input
- 2 Audio inputs (1W+1W stereo speaker)
- Height and Tilt adjustment

Colour Metal Case Monitor



VMC-8615FP

15" High-Res Colour Video Monitor

- More than 800 TV Lines
- 3 Channels of Audio and Video (2 composite, 1 S-VIDEO) Input / Output Selectable from the Front Panel
- Images Signal Input / Output Terminal allows a Bridge Connection (75 ohms/ High Impedance Automatic Switching)
- Built-in Compact Loudspeaker (1W)
- Automatic Voltage selector, AC 100 V to 240 V
- Durable Metal Cabinet
- Multi-system Compatibility to detect PAL or NTSC Input Signals Automatically
- Overscan / Underscan Selectable from Front Panel
- 2 Composite, 1 s-video, 2 Audio Inputs Selectable from Front Panel

Professional LCD Monitors

SANYO has developed an especially high-performance range of professional monitors for all areas of ap plication - whether in traditional environments, places with oil, dust and smoke, or even outdoors in all conditions, including rain, snow and extreme temperatures from –20 °C to +45 °C. High-quality components and materials combined with sophisticated solutions designed down to the smallest detail translate into the uncompromising quality of SANYO LCD monitors.

All monitor solutions can be installed horizontally or vertically (portrait mode). Solutions also feature advanced technologies such as a sunlight readable monitor, an environmentally friendly solution for excellent and efficient image reproduction even in direct sunlight.

SANYO LCD monitors are the top choice in the following three areas of application where impressive and bright images are required, regardless of the location or situation:

WEATHERPROOF MONITORS
LCD monitors for all indoor and outdoor installations subject to water exposure or temperature variation

ROBUST MONITORS
Protection against oil, smoke and dust. Robust, reliable performance in even the most adverse conditions.

SUNLIGHT READABLE MONITORS
Transflective monitor structure uses light and sunlight as a light source for higher image brightness



WEATHERPROOF





Model	42LM5WP	52LH1WP
Type	Liquid crystal display panel	Liquid crystal display panel
IP rating	IP66*	IP66*
Screen size (diagonal image)	42" (105 cm)	52" (132 cm)
Active screen area (W x H)	93.0 x 52.3 cm	115.2 x 64.8 cm
Aspect ratio	16 : 9	16 : 9
Resolution in pixels	1,366 x 768 (WXGA)	1,920 x 1,080 (HDTV 1.080p)
Pixel pitch	0.227 x 0.681 mm	0.2 x 0.6 mm
Brightness	500 cd/m²	500 cd/m²
Contrast ratio	1,500 : 1	1,500 : 1
Viewing angle	178° (horizontal and vertical)	176° (horizontal and vertical)
Response time	6 ms (gray to gray)	6.5 ms (gray to gray)
Grey scale value	8 bit	8 bit
Number of colours	16.7 M	16.7 M
Colour Systems	PAL, NTSC3.58 (AV in), SECAM	PAL, NTSC3.58 (AV in), SECAM
Computer compatibility	UXGA, WXGA, SXGA, XGA, SVGA, VGA	UXGA, WXGA, SXGA, XGA, SVGA, VGA
Input terminals	DVI-D (digital/HDCP) D-Sub15 5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) Scart (RGB), Video RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio 3.5 mm Stereo Jack for Audio	DVI-D (digital/HDCP) D-Sub15 5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) Scart (RGB), Video RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio 3.5 mm Stereo Jack for Audio
Output terminals	5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio External speaker output (2 x 6 W)	5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio External speaker output (2 x 10 W)
Operating temperature	–20 °C to +45 °C (winter mode)	–20 °C to +45 °C (winter mode)
Maximum resilience	100 N/mm²	100 N/mm²
Voltage	100–240 V (50/60 Hz)	100–240 V (50/60 Hz)
Power consumption	200 W/2 W (stand-by mode)	290 W/2 W (stand-by mode)
Dimensions (W x H x D)	1,027 x 620 x 167.5 mm	1,304 x 800 x 236 mm
Weight	35.5 kg	74 kg
Vesa mounting sizes	200 x 200 mm	997 x 420 mm, 420 x 516 mm
Colour of cabinet	Silver	Silver
Warranty	2 years	2 years
Standard accessories	User manual, remote control, batteries, power cable	User manual, remote control, batteries, power cable
Optional accessories	PJ Net Organizer Plus (POA-LN01) LCD200 Bracket LCD200 Security Bracket	PJ Net Organizer Plus (POA-LN02)
Touch Panel	–	–
Special features	Anodized aluminium case, anti-reflective tempered glass, 24h/7 approved, portrait mode, extensive input & output terminals	Anodized aluminium case, reinforced, 24h/7 approved, portrait mode, anti-reflective tempered glass, extensive input & output terminals

* IP = Protection class

SUNLIGHT READABLE





Model	42SR1	42SRE1
Type	Liquid crystal display panel	Liquid crystal display panel
IP rating	IP66*	–
Screen size (diagonal image)	42" (105 cm)	42" (105 cm)
Active screen area (W x H)	93.0 x 52.3 cm	93.0 x 52.3 cm
Aspect ratio	16 : 9	16 : 9
Resolution in pixels	1,366 x 768 (WXGA)	1,366 x 768 (WXGA)
Pixel pitch	0.227 x 0.681 mm	0.227 x 0.681 mm
Brightness	Max 1,500 cd/m² with ideal condition under sunlight	Max 1,500 cd/m2 with ideal conditions under sunlight
Contrast ratio	1.500 : 1	1,500 : 1
Viewing angle	178° (horizontal and vertical)	178° (horizontal and vertical)
Response time	8 ms (gray to gray)	6 ms (gray to gray)
Grey scale value	8 bit	8 bit
Number of colours	16.7 M	16.7 M
Colour Systems	PAL, NTSC3.58 (AV in), SECAM	PAL, NTSC3.58 (AV in), SECAM
Computer compatibility	UXGA, WXGA, SXGA, XGA, SVGA, VGA	UXGA, WXGA, SXGA, XGA, SVGA, VGA
Input terminals	DVI-D (digital/HDCP) D-Sub15 5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) Scart (RGB), Video RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio 3.5 mm Stereo Jack for Audio	DVI-D (digital/HDCP) D-Sub15 5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio 3,5 mm Stereo Jack for Audio
Output terminals	5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio External speaker output (2 x 6 W)	5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) Scart (RGB) RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio External speaker output (2 x 6 W)
Operating temperature	–20 °C to +45 °C (winter mode)	0 °C to +35 °C
Maximum resilience	100 N/mm²	–
Voltage	100–240 V (50/60 Hz)	220–240 V (50 Hz)
Power consumption	240 W/2 W (stand-by mode)	188 W/1.2 W (stand-by mode)
Dimensions (W x H x D)	1,027 x 620 x 167.5 mm	1,032 x 625 x 127 mm
Weight	38.5 kg	22.5 kg
Vesa mounting sizes	200 x 200 mm	400 x 400 mm, 800 x 400 mm
Colour of cabinet	Silver	Black / Silver
Warranty	2 years	2 years
Standard accessories	User manual, remote control, batteries, power cable	User manual, remote control, batteries, power cable, base
Optional accessories	PJ Net Organizer Plus (POA-LN01) LCD200 Bracket LCD200 Security Bracket	–
Touch Panel	–	–
Special features	Sunlight readable – adaptive brightness in accordance with prevailing light conditions, anti-reflective tempered glass, anodized aluminium case, 24h/7 approved, portrait mode, extensive input & output terminals	Sunlight readable – adaptive brightness in accordance with prevailing light conditions, 24h/7 approved, portrait mode, extensive input & output terminals

ROBUST





Model	42LM5R	52LH1R	
Type	Liquid crystal display panel	Liquid crystal display panel	
IP rating	–	–	
Screen size (diagonal image)	42" (105 cm)	52" (132 cm)	
Active screen area (W x H)	93.0 x 52.3 cm	115.2 x 64.8 cm	
Aspect ratio	16 : 9	16 : 9	
Resolution in pixels	1,366 x 768 (WXGA)	1,920 x 1,080 (HDTV 1,080p)	
Pixel pitch	0.227 x 0.681 mm	0.2 x 0.6 mm	
Brightness	500 cd/m²	500 cd/m²	
Contrast ratio	1,500 : 1	1,500 : 1	
Viewing angle	178° (horizontal and vertical)	176° (horizontal and vertical)	
Response time	6 ms (gray to gray)	6.5 ms (gray to gray)	
Grey scale value	8 bit	8 bit	
Number of colours	16.7 M	16.7 M	
Colour Systems	PAL, NTSC3.58 (AV in), SECAM	PAL, NTSC3.58 (AV in), SECAM	
Computer compatibility	UXGA, WXGA, SXGA, XGA, SVGA, VGA	UXGA, WXGA, SXGA, XGA, SVGA, VGA	
Input terminals	DVI- D (digital/HDCP) D-Sub 15, 5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) Scart (RGB), Video RS232 (D-Sub 9 pin) 2 X RCA (R/L mono) for Audio 3.5 mm Stereo Jack for Audio	DVI-D (digital/HDCP) D-Sub15 5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) Scart (RGB), Video RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio 3.5 mm Stereo Jack for Audio	
Output terminals	5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr), Component (Y, Pb, Pr), BNC (Video) RS232 (D-Sub 9 pin)	5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio External speaker output (2 x 6 W)	5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio External speaker output (2 x 10 W)
Operating temperature	–20 °C to +45 °C (winter mode)	0 °C to +45 °C	0 °C to +45 °C
Maximum resilience	100 N/mm²	–	–
Voltage	100–240 V (50/60 Hz)	100–240 V (50/60 Hz)	100–240 V (50/60 Hz)
Power consumption	290 W	200 W/2 W (stand-by mode)	290 W/2 W (stand-by mode)
Dimensions (W x H x D)	1,304 x 800 x 234.5 mm	1,027 x 620 x 162 mm	1,304 x 800 x 236 mm
Weight	83.5 kg	35.5 kg	66 kg
Vesa mounting sizes	997 x 420 mm, 420 x 516 mm	200 x 200 mm	997 x 420 mm, 420 x 516 mm
Colour of cabinet	Silver	Silver	Silver
Warranty	2 years	2 years	2 years
Standard accessories	User manual, remote control, power cable	User manual, remote control, batteries, power cable	User manual, remote control, batteries, power cable
Optional accessories	POA-LN02 (network module) ONE-TP-S (wall mount bracket)	PJ Net Organizer Plus (POA-LN01), LCD200 Bracket LCD200 Security Bracket	PJ Net Organizer Plus (POA-LN02)
Touch Panel	–	–	–
Special features	Sunlight Readable - adapative brightness in accorandace with prevailing ligt conditions, weatherproof, reinforce anti-reflective tempered glass, anodized aluminium case, 24/7 approved, extensive input & output terminals	Protection against oil, smoke and dust, anodized aluminium case, 24h/7 approved, portrait mode, anti-reflective acrylic panel, extensive input & output terminals	Protection against oil, smoke and dust, anodized aluminium case, 24h/7 approved, portrait mode, anti-reflective acrylic panel, extensive input & output terminals

PROFESSIONAL



Model	42LE1	Model
Type	Liquid crystal display panel	Type
IP rating	–	IP rating
Screen size (diagonal image)	42" (105 cm)	Screen size (diagonal image)
Active screen area (W x H)	93.0 x 52.3 cm	Active screen area (W x H)
Aspect ratio	16 : 9	Aspect ratio
Resolution in pixels	1,366 x 768 (WXGA)	Resolution in pixels
Pixel pitch	0.227 x 0.681 mm	Pixel pitch
Brightness	500 cd/m²	Brightness
Contrast ratio	1,500 : 1	Contrast ratio
Viewing angle	178° (horizontal and vertical)	Viewing angle
Response time	6 ms (gray to gray)	Response time
Grey scale value	8 bit	Grey scale value
Number of colours	16.7 M	Number of colours
Colour Systems	PAL, NTSC3.58 (AV in), SECAM	Colour Systems
Computer compatibility	UXGA, WXGA, SXGA, XGA, SVGA, VGA	Computer compatibility
Input terminals	DVI-D (digital/HDCP) D-Sub15 5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio 3,5 mm Stereo Jack for Audio	Input terminals
Output terminals	5 x BNC (RGBHV, Y-Pb/Cb-Pr/Cr) Component (Y, Pb, Pr) BNC (Video) Scart (RGB) RS232 (D-Sub 9 pin) 2 x RCA (R/L mono) for Audio External speaker output (2 x 6 W)	Output terminals
Operating temperature	0 °C to +35 °C	Operating temperature
Maximum resilience	–	Maximum resilience
Voltage	220–240 V (50 Hz)	Voltage
Power consumption	188 W/1.2 W (stand-by mode)	Power consumption
Dimensions (W x H x D)	1,032 x 625 x 127 mm	Dimensions (W x H x D)
Weight	22.5 kg	Weight
Vesa mounting sizes	400 x 400 mm, 800 x 400 mm	Vesa mounting sizes
Colour of cabinet	Black	Colour of cabinet
Warranty	2 years	Warranty
Standard accessories	User manual, remote control, batteries, power cable, base	Standard accessories
Optional accessories	–	Optional accessories
Touch Panel	–	Touch Panel
Special features	24h/7 approved, portrait mode, slim frame, extensive input & output terminals	Special features

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For Life and the Earth

SANYO

Other great SANYO products on the market

Throughout all of SANYO's activities worldwide, there are common strands - environmental awareness innovative technologies - user friendly procedures - and underlying all of these is the basic philosophy of a company who believes in the twin tenets of enhancing human lives and using technological advances to create a better world. These are just some of our latest products which represent these core values.

HD Ready LCD Televisions

SANYO now has it's widest ever range of LCD TV's. This 52" model is our largest TV to date. Features include a full 1080p picture resolution, a high contrast ratio of 1000:1 and an ultra wide viewing angle of 178 degrees. With an in-built digital tuner, this TV is set to meet the demands of the consumer looking to invest in a large screen, state of the art HD ready television.





Evolutionary Eneloop Batteries

Eneloop is a combination of a rechargeable and a disposable battery, the next evolutionary step for batteries into the 21st century. The key-advantage of the eneloop compared to usual rechargeable batteries is its extremely low self-discharge. Once charged, eneloop keeps its charge even if you store it for 6 or 12 months. For a rechargeable battery this is a revolutionary advantage. No more worries about the state of charge of your battery. Just, charge them and keep them.



Education Projectors

SANYO have developed one of the first projectors specifically for the education market - with the emphasis clearly placed on security. The SANYO SafeGuard Projector has been designed with the needs of schools, colleges and universities in mind. With a host of anti-theft features, the SafeGuard is fully protected from increasing levels of theft and comes fully approved by the Crime and Loss Prevention Board.

SANYO PRODUCTS





Xacti Waterproof Camera

Introducing to you the world's first high definition fully waterproof Dual Camera. Perfectly at home whether used above or below water, in fact it's the only Dual Camera you will ever need. Fully submersible to 3 metres it's the perfect travel companion, take it to the sea, the pool, skiing or a sandy beach.





High Definition Dual Cameras

The new range of SANYO Xacti Dual Cameras include the worlds first Dual Camera to offer 1080p high defintiion recording at 60fps, this allied with still images at a fantastic 8mp mean the Dual Camera is more than just a camcorder.



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